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APPLICATION NO.	FIL	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,637	10/713,637 11/14/2003		Robert J. Dunki-Jacobs	END-5240	2410
27777	7590 .	06/16/2005		EXAMINER	
PHILIP S. JOHNSON		· ·	JUNG, WILLIAM C		
		HNSON PLAZA		ART UNIT .	PAPER NUMBER
NEW BRUI	NEW BRUNSWICK, NJ 08933-7003			3737	•
			DATE MAILED: 06/16/2003	DATE MAILED: 06/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	10/713,637	DUNKI-JACOBS ET AL.					
	Examiner	Art Unit					
The MAIL INC DATE of this communication	William Jung	3737					
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wi	ui the correspondence address					
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communicat  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION.  CFR 1.136(a). In no event, however, may a resion.  S, a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON a statute, cause the application to become AB	eply be timely filed  y (30) days will be considered timely.  THS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	14 November 2003.						
	This action is non-final.						
		ers, prosecution as to the merits is					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
. 4)⊠ Claim(s) <u>1-27</u> is/are pending in the applic	eation						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-27</u> is/are rejected.							
	<u>.</u>						
7) Claim(s) is/are objected to.	and/ar alastian requirement						
8) Claim(s) are subject to restriction	and/or election requirement.						
Application Papers	·						
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection	to the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by t	he Examiner. Note the attached	Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority docu	ments have been received.						
2. Certified copies of the priority docu		pplication No.					
3. Copies of the certified copies of the							
application from the International B	•	,					
* See the attached detailed Office action for	a list of the certified copies not	received.					
Attachment/c)							
Attachment(s)  1) Notice of References Cited (PTO-892)	A) Thinning C	ummary (PTO-413)					
2) Notice of References Cited (PTO-992)  Notice of Draftsperson's Patent Drawing Review (PTO-94)		)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S	SB/08) 5) Notice of In	formal Patent Application (PTO-152)					
Paper No(s)/Mail Date <u>23022004, 27082004</u> .	6)  Other:	<del>_</del>					

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 11-27 are rejected under 35 U.S.C. 102(b) as being anticipated by *Kovacs et al* (US 5,833,603).

Kovacs et al anticipate all claimed features in claims 11-27.

Claims 11 and 12: Kovac et al disclose a system and method for detecting tissues comprising a capsule comprising a detector, a substance for associating with a target tissue where the substance is capable of being detected by the detector and a machine for verifying at least one of the detector and substance are suitable for use (col. 3, line 10 – col. 4, line 59; col. 6, lines 8-56)..

Claims 13-18: Kovacs et al further disclose the method above where steps of verifying at least one component and concentration (amount of chemical or biochemical substance) of the physical properties of the tissue, cell, and biochemical components of region of interest.

Although, Kovacs et al do not explicitly state that the detection substance is a monoclonal body, peptide, nanoparticle, mRNA and DNS corresponding to a generic monoclonal antibody, and liposome, these are inherent properties of biochemical composition of the tissues and cells (col. 6, lines 26-36).

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Claims 19-23: Kovacs et al disclose that the biosensor detects energy spectra via optical or photosensor, which is used along with dye to acquire optical radiation. Although Kovacs et al do not explicitly state use or radioisotopes, the dye solution with radiation optical acquisition is inherent that the dye solution must be radioactive or radioisotopes (col. 1, lines 56-65; col. 4, lines 34-44; col. 5, lines 5-26).

Claims 24-27: Kovacs et al further discloses the method above where the sensor is a spectrophotometer acquiring multiple images of data from a region of interest with predetermine spectrum, wavelengths, and position to detect optical spectrum, i.e. spatial response pattern (col. 1,line 66 – col. 2, line 11).

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Kovac et al* (US 5,833,603) as applied to claim 12 above, and further in view of *Iddan et al* (US 5,604,531).

Kovacs et al substantially anticipate all claimed features in claims 1-10. Kovac et al disclose a system for detecting tissues comprising a capsule comprising a detector, a substance for associating with a target tissue where the substance is capable of being detected by the detector and a machine for verifying at least one of the detector and substance are suitable for use (col. 3, line 10 – col. 4, line 59; col. 6, lines 8-56). In addition, Kovacs et al disclose that the capsule includes multiple detectors, a radiation detector, magnetic detector, and single analyzer

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for each detector (col. 4, lines 35-44). Although Kovacs et al disclose implantation of the sensor device, Kovacs et al do not disclose that the capsule is a swallowable or that the capsule material is coated to allow the capsule to goes through the gastro-intestinal (GI) tract. However, Kovacs et al's deficiency is well known in the art where Iddan et al teaches a similar capsule detector where the device is swallowable and coated with material to allow the detector to pass through the GI tract (col. 1, lines 34-40; col. 3, line 8 – col. 5, line 6). Therefore, it would have been obvious to one having an ordinary skill in the art at the time the invention was made to apply Kovacs et al's teachings as described above with Iddan et al's device designed to be swallow through the GI tract to achieve the claimed invention.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Casper et al (US 5,167,626)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Jung, Ph.D. whose telephone number is 571-272-4739. The examiner can normally be reached on Mon-Fri 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

んけ May 26, 2005

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700